





constituted by matrix operation means.

8. An image processing apparatus, comprising:

an image reading component for electrically reading an original  
5 image for each of more than two color constituents by photoelectric  
conversion means;

input image data storing means for storing a plurality of input  
image data that was read;

10 first correction value storing means for storing a plurality  
of correction values constituted by a plurality of correction value  
data for sequentially correcting the input image data in units of  
each color constituent;

data order setting means for storing the correction value data  
from the first correction value storing means into second correction  
15 value storing means in a data order according to a command that  
specifies the output order of the color constituents;

correction operation means for sequentially correcting the input  
image data from the above input image data storing means for each  
color constituent based on the correction value data from the second  
20 correction value storing means; and

output image data storing means for storing and outputting the  
corrected image data from this correction operation means.

9. An image processing apparatus, comprising:

25 input image data storing means for storing a plurality of input  
image data read for each of more than two color constituents;

image processing mode selecting means for selecting a color mode  
which outputs the input image data as data of a plurality of color  
constituents and a monotone mode which outputs as data of one color  
30 constituent;

correction value storing means for respectively storing color  
correction values constituted by a plurality of correction value data  
for correcting the input image data for each color constituent when

in color mode, and a plurality of monotone correction values constituted by a plurality of correction value data for correcting the input image data when in monotone mode;

correction operation means for correcting the input image data based on the color correction values which sequentially correspond to each color constituent when in color mode, said correction operation means correcting the above input image data based on the above monotone correction values which correspond to the input image data when in monotone mode;

output image data storing means for storing the corrected image data from the first second correction operation means; and

data order setting means provided between the input image data storing means and the output image data storing means, said data order setting means changing the order of the correction value data according to a command that specifies the output order of the color constituents when in color mode.

10. An image processing apparatus according to claim 9, wherein said correction operation means is constituted by matrix operation means.

11. An image processing method, comprising:

an image data generation step in which a plurality of image data read for each of more than two color constituents is stored in an input image data storing means;

a correction value storing step in which correction values are stored, from a first storing means which stores in advance a plurality of correction values constituted by a plurality of correction value data for correcting the above input image data for each color constituent, into second correction value storing means, in a data order according to a command that specifies the order of output of the above color constituents;

a correction operation step in which the input image data read from the input image data storing means is operated on based on the

a data output step in which the image data after correction which was obtained from this correction operation step is output.